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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565,553	01/23/2006	Mitsuhiro Kaneta	Q92827	2076
65565 SUGHRUE-265	7590 08/05/2009 5 <b>550</b>		EXAMINER	
	LVANIA AVE. NW		BERNSHTEYN, MICHAEL	
WASHINGTON, DC 20037-3213			ART UNIT	PAPER NUMBER
			1796	
			MAIL DATE	DELIVERY MODE
			08/05/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
Office Action Occurrence		10/565,553	KANETA, MITS	KANETA, MITSUHIRO	
Office Action	n Summary	Examiner	Art Unit		
		MICHAEL M. BERNS	SHTEYN 1796		
The MAILING DAT Period for Reply	E of this communication ap	opears on the cover sh	eet with the correspondence	address	
WHICHEVER IS LONGE  - Extensions of time may be availated after SIX (6) MONTHS from the last of the second of the	R, FROM THE MAILING I ble under the provisions of 37 CFR 1 mailing date of this communication. above, the maximum statutory perior extended period for reply will, by statulater than three months after the mail	DATE OF THIS COMN136(a). In no event, however, d will apply and will expire SIX ( tte, cause the application to bec	may a reply be timely filed  6) MONTHS from the mailing date of thi  ome ABANDONED (35 U.S.C. § 133).		
Status					
1)⊠ Responsive to com 2a)⊠ This action is <b>FINA</b> 3)□ Since this applicati	<i>7</i> —	is action is non-final. ance except for formal	matters, prosecution as to 5 5 C.D. 11, 453 O.G. 213.	the merits is	
Disposition of Claims					
4a) Of the above classified the state of the above classified (a) □ is/a is/are (b) □ Claim(s) □ is/a is/are (claim(s) □ is/a is/are (claim(s) □ are (claim(s	rejected.	awn from consideratio			
Application Papers					
10) The drawing(s) filed Applicant may not re Replacement drawing	quest that any objection to th g sheet(s) including the corre	ccepted or b) objected or b) objecte	ed to by the Examiner. beyance. See 37 CFR 1.85(a) awing(s) is objected to. See 37 ached Office Action or form	CFR 1.121(d).	
Priority under 35 U.S.C. § 1	19				
12)⊠ Acknowledgment is a)⊠ All b)□ Some 1.⊠ Certified cop 2.□ Certified cop 3.□ Copies of the application fi	made of a claim for foreig	nts have been received nts have been received ority documents have au (PCT Rule 17.2(a))	d. d in Application No been received in this Nation	al Stage	
Attachment(s)  1) Notice of References Cited (Fig. 1) Notice of Draftsperson's Pate (Fig. 1) Information Disclosure Staten Paper No(s)/Mail Date	nt Drawing Review (PTO-948)	Pap 5) 🔲 Noti	rview Summary (PTO-413) er No(s)/Mail Date ce of Informal Patent Application er:		

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## **DETAILED ACTION**

1. This Office Action is a response to the remarks filed on May 18, 2009. No claims have been amended, cancelled or added.

2. Claims 1-3 are pending.

## Claim Rejections - 35 USC § 103

- 3. The text of this section of Title 35 U.S.C. not included in this action can be found in a prior Office Action.
- 4. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Catena (U. S. Patent 5,256,450) in view of Reich (U. S. Patent 5,350,783), for the rationale recited in paragraph 1 of Office action dated February 18, 2008 and comments below.

## Response to Arguments

- 5. Applicant's arguments filed on May 18, 2009 have been fully considered but they are not persuasive.
- 6. It appears that the focal applicant's argument resides in the contention that there is no sufficient teaching, suggestion, motivation, or other reason to combine Catena with Reich, and that person of ordinary skill in the art would have recognized that Na is an alkali metal that typically carries a single positive charge, whereas Ca and Mg are alkaline earth metals that typically carry a double positive charge. This same general

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argument applies to the rest of the recited non-alkali metals of claim 3 or the non-alkali metals recited by Reich (page 2, 2<sup>nd</sup> paragraph).

7. In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, both references belong to the same field of endeavor and teach thermoplastic polymer products comprising promoting agent selected from the group consisting of metal complexing agents.

It is noted that as it was already mentioned in the previous Office Action dated February 18, 2009, Reich discloses that metal complexing agents include complexes of nonoxidizing metals such as aluminum, barium, calcium, magnesium, potassium, sodium, and titanium, preferably those of sodium, calcium, potassium, and magnesium. The metal complexes are neither prooxidants nor photoactivators and include sodium ethyenediaminetetraacetate, sodium salt of zinc ethyenediaminetetraacetate, calcium diethyldithiocarbamate, magnesium hydroxyethylethylenediaminetriacetic acid, sodium salt, calcium acetylacetonate, magnesium triethylenetetraaminetetraacetate, zinc diethylenetriamine pentaacetic acid, sodium salt, potassium propylenediaminetetraacetate, and nonoxidizing metal complexes of cyclic phosphate,

xanthates, benzothiazoles, oximes, and benzimidazoles (col. 4, line 63 through col. 5, line 9).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to substitute tetrasodium ethyenediaminetetraacetate of Catena for metal complexes of nonoxidizing metals such as aluminum, barium, calcium, magnesium, potassium, sodium, and titanium, preferably those of sodium, calcium, potassium, and magnesium as taught by Reich based on their recognized equivalency and with the reasonable expectation of success, and this to arrive the subject matter of instant claims 1 and 3.

It is further noted that "The motivation in the prior art to combine references does not have to be identical to that of the applicant to establish obviousness, i.e. it is not required for a finding of obviousness that motivation of the skilled artisan be the same as an applicant motivation", *In re Kemps*, 97 F.3d 1427, 1430, 40 USPQ2d 1309, 1312 (Fed. Cir. 1996) (holding there is sufficient motivation to combine teachings of prior art to achieve claimed invention where one reference specifically refers to the other).

Therefore, it is well settled that for a finding of obviousness under § 103 the prior art need not disclose the same motivation as disclosed by an applicant.

8. Applicants contend that there is no proper teaching, suggestion, motivation, or other reason to substitute the Fe, Cu, Mg, Co, Cr, Ni, V, or Zn complexes of Reich into the Na EDTA of Catena, and second, a person of ordinary skill in the art would not have combined Catena with Reich, because the teachings of Catena and Reich discourage such a combination. Catena is directed toward a sealant with good heat resistance and

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low shrinkage for porous materials, such as metal while Reich is directed toward a composting agent that uses EDTA as a complexing agent to release "active oxidants which degrade the polymer to a low molecular weight biodegradable material" (pages 2-3, the bridging paragraph).

9. It is noted that Reich discloses that it has been found that certain additives can be added which are polymeric composting promoting agents and which do not prematurely degrade the thermoplastic polymer during processing, indoor and outdoor storage, and use. In this invention, polymeric composting promoting agents include nonmetallic metal complexing agents, nonoxidizing-metal metal complexing agents, and mixtures thereof (col. 4, lines 8-12).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to substitute tetrasodium ethyenediaminetetraacetate of Catena for metal complexes of nonoxidizing metals such as aluminum, barium, calcium, magnesium, potassium, sodium, and titanium, preferably those of sodium, calcium, potassium, and magnesium as taught by Reich because such additives do not prematurely degrade the thermoplastic polymer during processing, indoor and outdoor storage, and use with enhanced biodegradability (US'783, col. 4, lines 8-12 and 22-23).

10. In response to applicant's argument that the references fail to show certain features of applicant's invention (page 4, 2<sup>nd</sup> paragraph), it is noted that the features upon which applicant relies (i.e., curing acceleration lower preservalibity) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification,

limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

11. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL M. BERNSHTEYN whose telephone number is (571)272-2411. The examiner can normally be reached on M-Th 8-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on 571-272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Michael M. Bernshteyn/ Examiner, Art Unit 1796 Page 7

/M. M. B./ Examiner, Art Unit 1796

/David Wu/

Supervisory Patent Examiner, Art Unit 1796